

68525 - 39 grams
68626 – 7.2 grams
68527 – 3 grams
Impact Melt Breccia



Figure 1: Photo of 68525. Mm scale. S72-51255

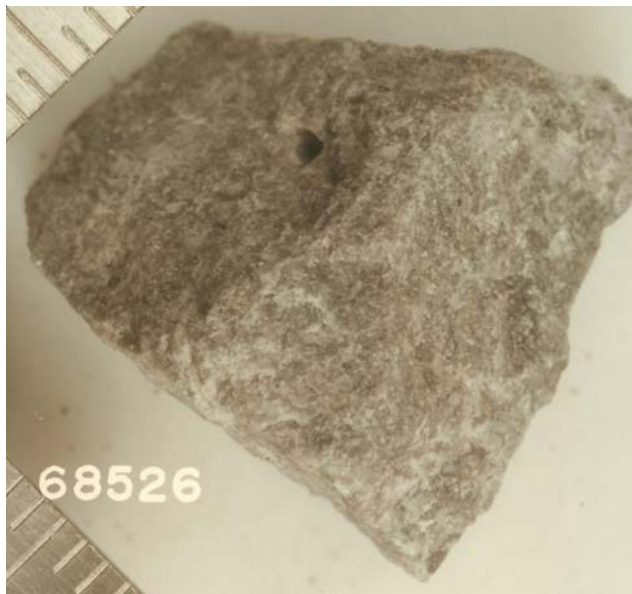


Figure 2: Photo of back side of 68526. Scale in mm. S72-49562



Figure 3: Photo of 68527 with mm scale. S72-53536

Introduction

68525, 68526 and 68527 are rake samples collected from station 8 soil in an area thought of have disturbance from South Ray Crater – see section on 68501. They appear to be impact melt breccia, with poikilitic texture, but have not been studied.

Compositional variation of Apollo 16 impact-melt rocks is discussed by Korotev (1994).

Processing

There is one thin section of 68525, two for 68526 and one for 68527.

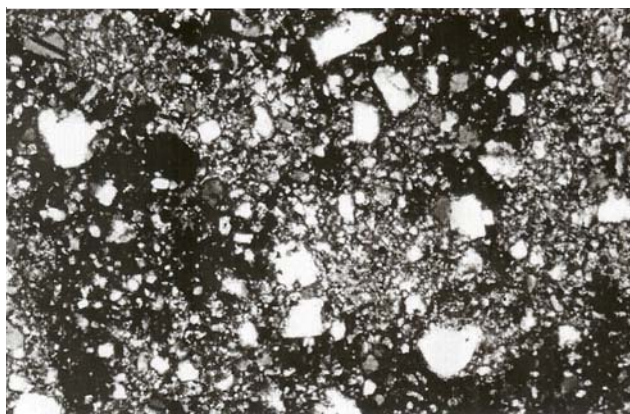


Figure 2: Thin section of 68525 showing poikilitic texture.

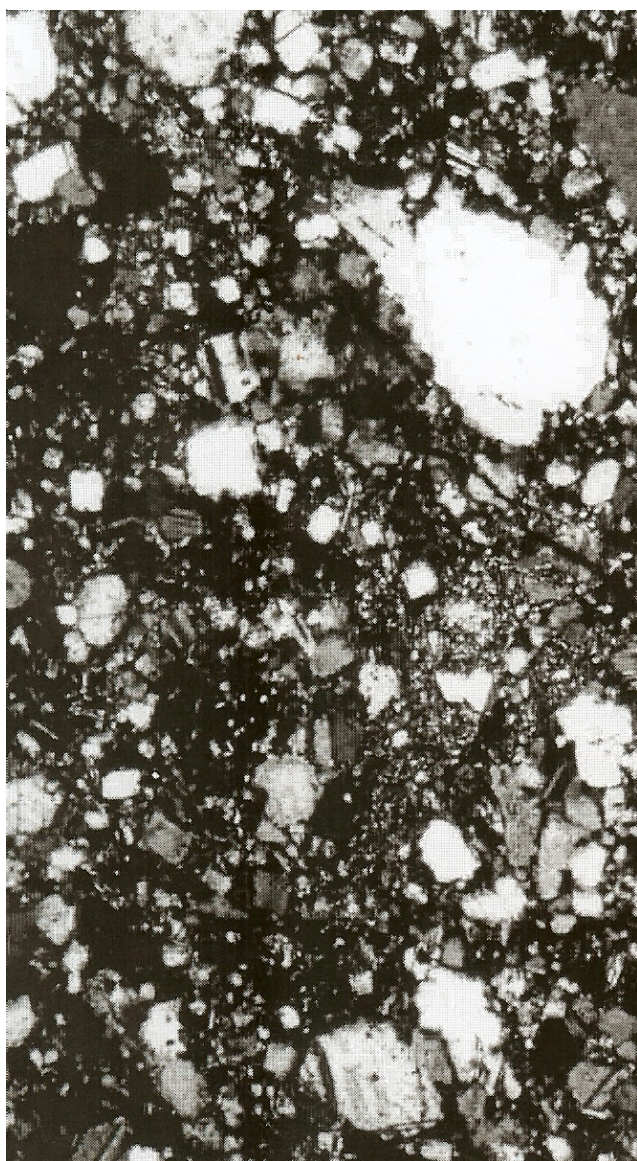


Figure 3: Thin section of 68526, with crossed nicols. Field of view is 2 mm.

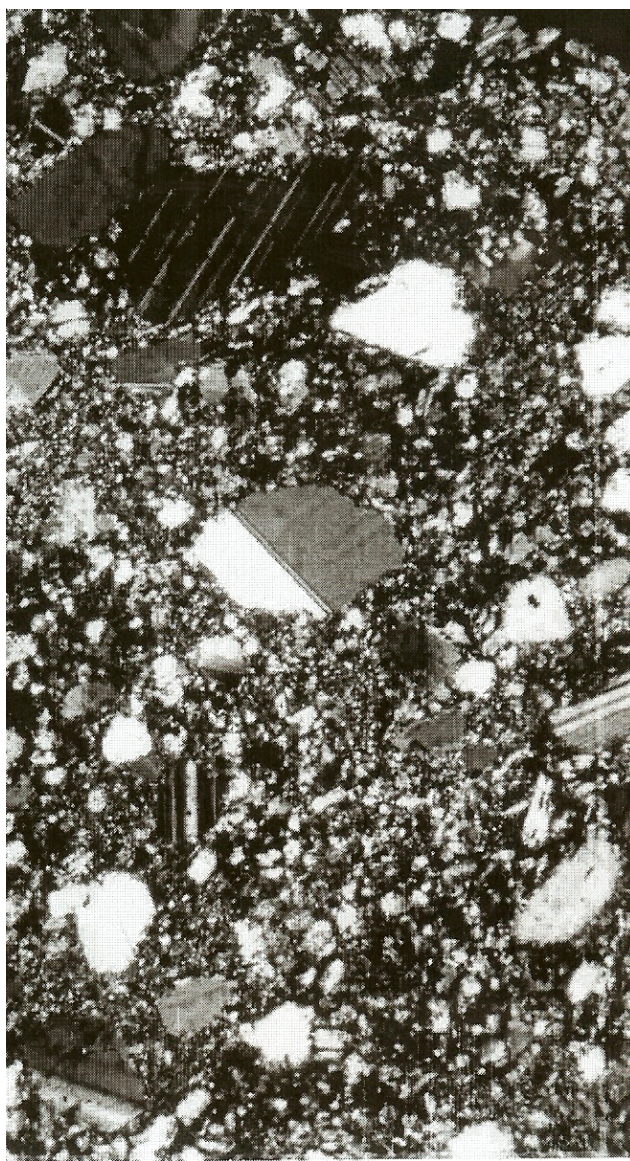


Figure 4: Thin section of 68527, with crossed nicols. Field of view is 2 mm.

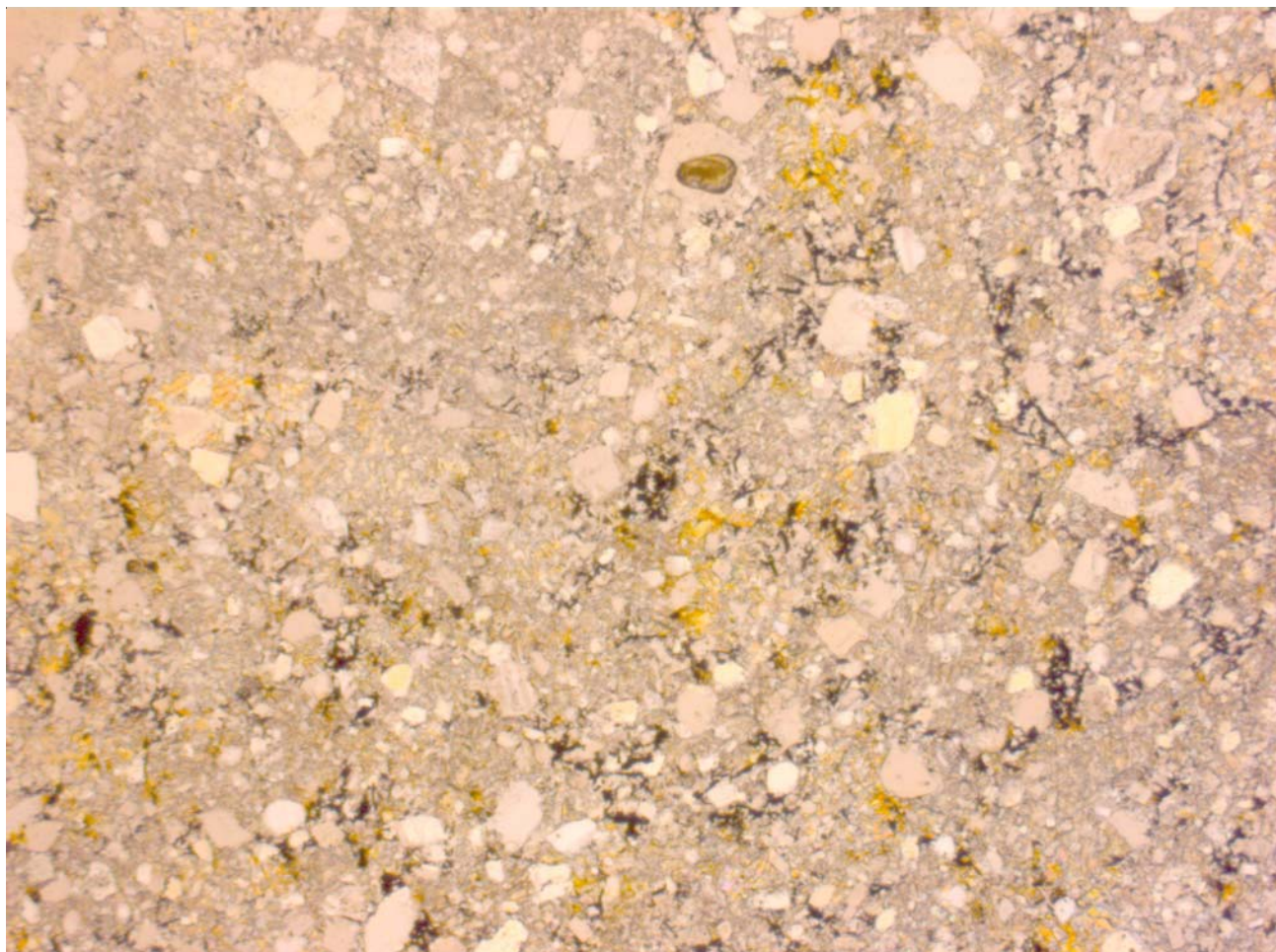
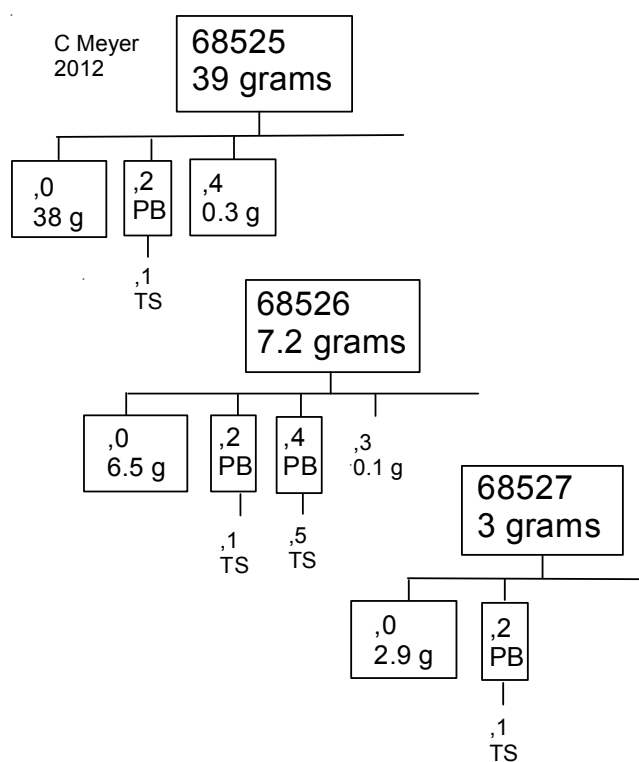


Figure 5: Another photo of 68525,1 illustrating what appears to be “rust”. Field of view is about 2 mm.



References for 68525

Korotev R.L. (1994) Compositional variation in Apollo 16 impact melt breccias and inferences for the geology and bombardment history of the central highlands of the Moon. *Geochim. Cosmochim. Acta* **58**, 3931-3969.

Ryder G. and Norman M.D. (1980) Catalog of Apollo 16 rocks (3 vol.). Curator's Office pub. #52, JSC #16904

Smith J.V. and Steele I.M. (1972c) Apollo 16 rake samples 67515 to 68537: Sample classification, description and inventory. Curator Catalog, JSC

Steele I.M. and Smith J.V. (1973) Mineralogy and petrology of some Apollo 16 rocks and fines: General petrologic model of the moon. *Proc. 4th Lunar Sci. Conf.* 519-536.